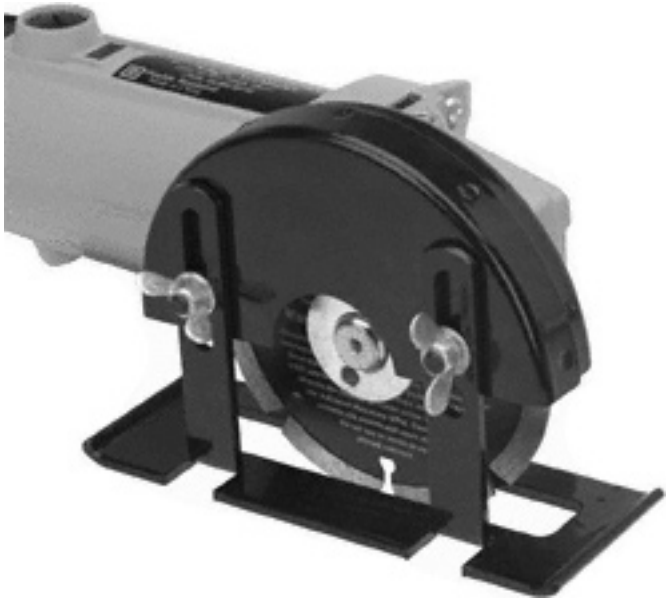
ANGLE GRINDER SAFETY GUARD

Model 45921

INSTALLATION INSTRUCTIONS



Note: Cutting Blade and Angle Grinder sold separately.

Visit our website at: http://www.harborfreight.com

Read this material before using this product. Failure to do so can result in serious injury. SAVE THIS MANUAL.

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For technical questions or replacement parts, please call 1-800-444-3353.

Manual Revised 09I

SAVE THIS MANUAL

Keep this manual for the safety warnings and precautions, installation, operating, inspection, maintenance and cleaning procedures. Write the product's serial number in the back of the manual near the assembly diagram (or month and year of purchase if product has no number). Keep this manual and the receipt in a safe and dry place for future reference.

IMPORTANT SAFETY INFORMATION

In this manual, on the labeling, and all other information provided with this product:

This is the safety alert symbol. It is used to alert you to potential personal injury hazards. Obey all safety messages that follow this symbol to avoid possible injury or death.

⚠ DANGER **DANGER indicates a hazardous situation which, if not avoided, will result in death or serious injury.**

⚠ WARNING **WARNING indicates a hazardous situation which, if not avoided, could result in death or serious injury.**

⚠ CAUTION **CAUTION, used with the safety alert symbol, indicates a hazardous situation which, if not avoided, could result in minor or moderate injury.**

NOTICE **NOTICE is used to address practices not related to personal injury.**

CAUTION **CAUTION, without the safety alert symbol, is used to address practices not related to personal injury.**

WARNING Read all safety warnings and instructions. *Failure to follow the warnings and instructions may result in serious injury.*

Save all warnings and instructions for future reference.

The warnings, precautions, and instructions discussed in this instruction manual cannot cover all possible conditions and situations that may occur. It must be understood by the operator that common sense and caution are factors which cannot be built into this product, but must be supplied by the operator.

Installation Precautions

1. Unplug the angle grinder before installing this guard.
2. Use only with 4" or 4.5" angle grinders from Harbor Freight Tools. They guard may not be able to attach properly to other angle grinders, and may come loose during operation.
3. Install only according to these instructions. Improper installation can create hazards.
4. Wear ANSI-approved safety goggles and heavy-duty work gloves during installation.
5. Keep installation area clean and well lit.
6. Keep bystanders out of the area during installation.

7. Do not install when tired or when under the influence of drugs or medication.

Operation Precautions

1. **The guard must be securely attached to the power tool and positioned for maximum safety, so the least amount of wheel is exposed towards the operator.** *The guard helps to protect operator from broken wheel fragments and accidental contact with wheel.*

2. **Do not "jam" the cut-off wheel or apply excessive pressure. Do not attempt to make an excessive depth of cut.** *Overstressing the wheel increases the loading and susceptibility to twisting or binding of the wheel in the cut and the possibility of kickback or wheel breakage.*

3. **Do not position your body in line with and behind the rotating wheel.** *When the wheel, at the point of operation, is moving away from your body, the possible kickback may propel the spinning wheel and the power tool directly at you.*

4. **When wheel is binding or when interrupting a cut for any reason, switch off the power tool and hold the power tool motionless until the wheel comes to a complete stop. Never attempt to remove the cut-off wheel from the cut while the wheel is in motion otherwise kickback may occur.** *Investigate and take corrective action to eliminate the cause of wheel binding.*

5. **Do not restart the cutting operation in the workpiece. Let the wheel reach full speed and carefully reenter the cut.** *The wheel may bind, walk up or kickback if the power tool is restarted in the workpiece.*

6. **Support panels or any oversized workpiece to minimize the risk of wheel pinching and kickback.** *Large workpieces tend to sag under their own weight. Supports must be placed under the workpiece near the line of cut and near the edge of the workpiece on both sides of the wheel.*

7. **Use extra caution when making a "pocket cut" into existing walls or other blind areas.** *The protruding wheel may cut gas or water pipes, electrical wiring or objects that can cause kickback.*

8. Follow instructions and precautions in angle grinder manual at all times.

9. Use a cutting wheel/blade appropriate for the size of both the grinder and this guard. Using a wheel/blade larger than the grinder is designed for causes safety problems, even if the guard can handle the wheel/blade. (For example: The body of a 4" grinder may be too short to keep your hands clear of a 4.5" wheel.)

10. Adjust depth and lock depth knobs before use.

11. Hold onto grinder securely when finishing a cut because it will have a tendency to snag the edge of the material.

12. Wear ANSI-approved safety glasses, NIOSH-approved dust mask/respirator and hearing protection under full face shield along with heavy-duty work gloves and steel-toed work boots during use.

13. Keep bystanders and animals out of the work area.

14. Do not use when tired or when under the influence of drugs or medication.

15. Keep work area clean and well lit.

16. This product is not a toy. Do not allow children to play with or near this item.

17. Use as intended only.

18. Inspect before every use; do not use if parts are loose, damaged, or if guard is not properly secured to the angle grinder.

19. Maintain product labels and nameplates. These carry important safety information. If unreadable or missing, contact Harbor Freight Tools for a replacement.

SAVE THESE INSTRUCTIONS.

SPECIFICATIONS

Angle Grinder Compatibility	Fits most Angle Grinders With 4” to 4-1/2” Dia. x 1/8” Thick Discs / Blades
Overall Dim.	2-1/2” W x 6” L x 3-3/4” H
Guide Surface Dim.	2-1/4” W x 6” L
Clamp Ring Dia.	1-9/16”
Construction	Steel
Weight	1.05 lb.

UNPACKING

When unpacking, make sure that the item is intact and undamaged. If any parts are missing or broken, please call Harbor Freight Tools at 1-800-444-3353 as soon as possible.

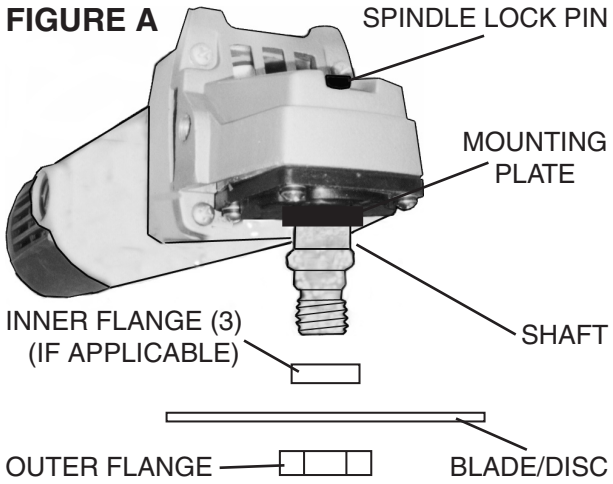
INSTALLATION

Read the <u>ENTIRE</u> IMPORTANT SAFETY INFORMATION section at the beginning of this manual including all text under subheadings therein before set up or use of this product.

⚠WARNING TO PREVENT SERIOUS INJURY FROM ACCIDENTAL OPERATION:
Turn the Power Switch of the tool off and unplug the angle grinder from its electrical outlet before installing or making any adjustments to the guard.

<u>Note:</u> For additional information regarding the parts listed in the following pages, refer to the Assembly Diagram near the end of this manual.

FIGURE A

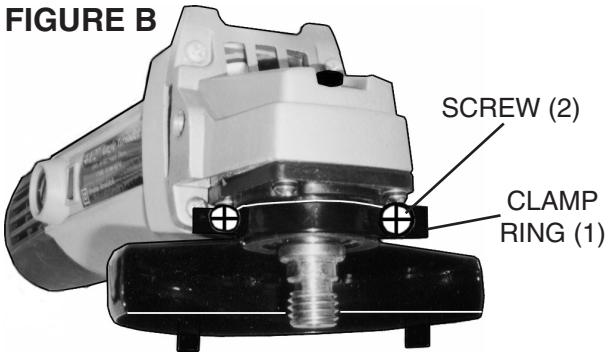


1. Depress and hold the Angle Grinder’s Spindle Lock Pin to prevent the Blade/Disc from turning. **(See Figure A.)**

2. Unscrew and remove the Angle Grinder’s Outer Flange, Blade/Disc, and Inner Flange. **(See Figure A.)**

<u>NOTE:</u> Depending on the brand/model of your Angle Grinder, *there may or may not be an Inner Flange.*

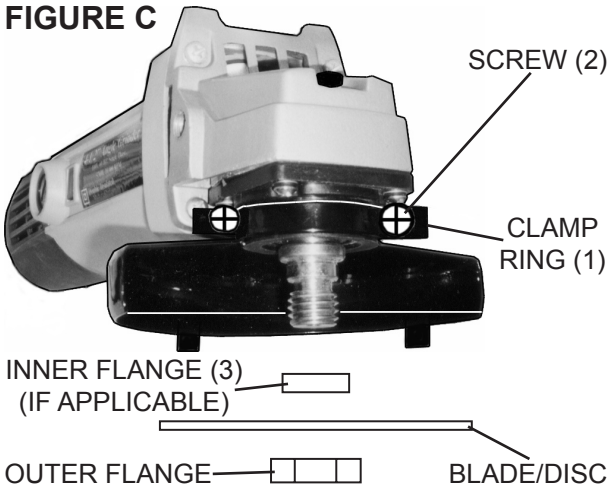
FIGURE B



3. Firmly secure the Clamp Ring (1) to the Angle Grinder's Mounting Plate by tightening the two phillips Screws (2) on the Clamp Ring. **(See Figure B.)**

NOTE: The Safety Guard comes with an Inner Flange (3) if your Angle Grinder brand/model requires an Inner Flange to properly attach the Safety Guard.

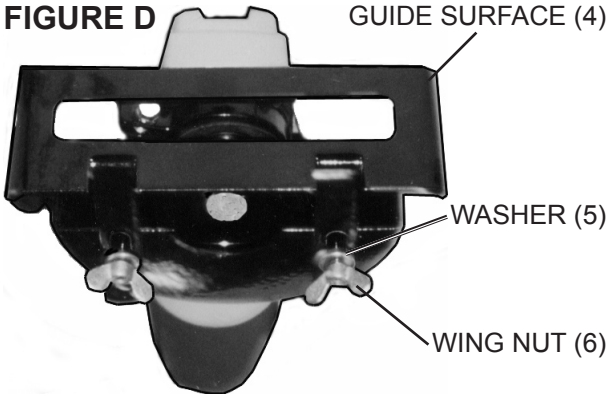
FIGURE C



4. If your Angle Grinder requires the use of an Inner Flange (3) insert the Inner Flange, Blade/Disc, and wrench tighten the Outer Flange onto the Shaft of the Angle Grinder. **(See Figure C.)**

5. **NOTE:** If your Air Grinder does not require the use of an Inner Flange, insert only the Blade/Disc, and wrench tighten the Outer Flange onto the Shaft.

FIGURE D



6. Attach the Guide Surface (4) to the Safety Guard, using the two Washers (5) and two Wing Nuts (6). **(See Figure D.)**

7. **NOTE:** The depth at which the Blade/Disc cuts may be adjusted by loosening the two Wing Nuts (6), sliding the Guide Surface (4) in or out and, then, tightening the two Wing Nuts. **(See Figure D.)**

OPERATION

Follow operation instructions and safety warnings in the manual for the Angle Grinder used.

MAINTENANCE AND SERVICING

Procedures not specifically explained in this manual must be performed only by a qualified technician.

⚠WARNING **TO PREVENT SERIOUS INJURY FROM ACCIDENTAL OPERATION:**
Turn the Power Switch of the angle grinder off and unplug the angle grinder from its electrical outlet before performing any inspection, maintenance, or cleaning procedures.

TO PREVENT SERIOUS INJURY FROM TOOL FAILURE:
Do not use damaged equipment. If abnormal noise or vibration occurs, have the problem corrected before further use.

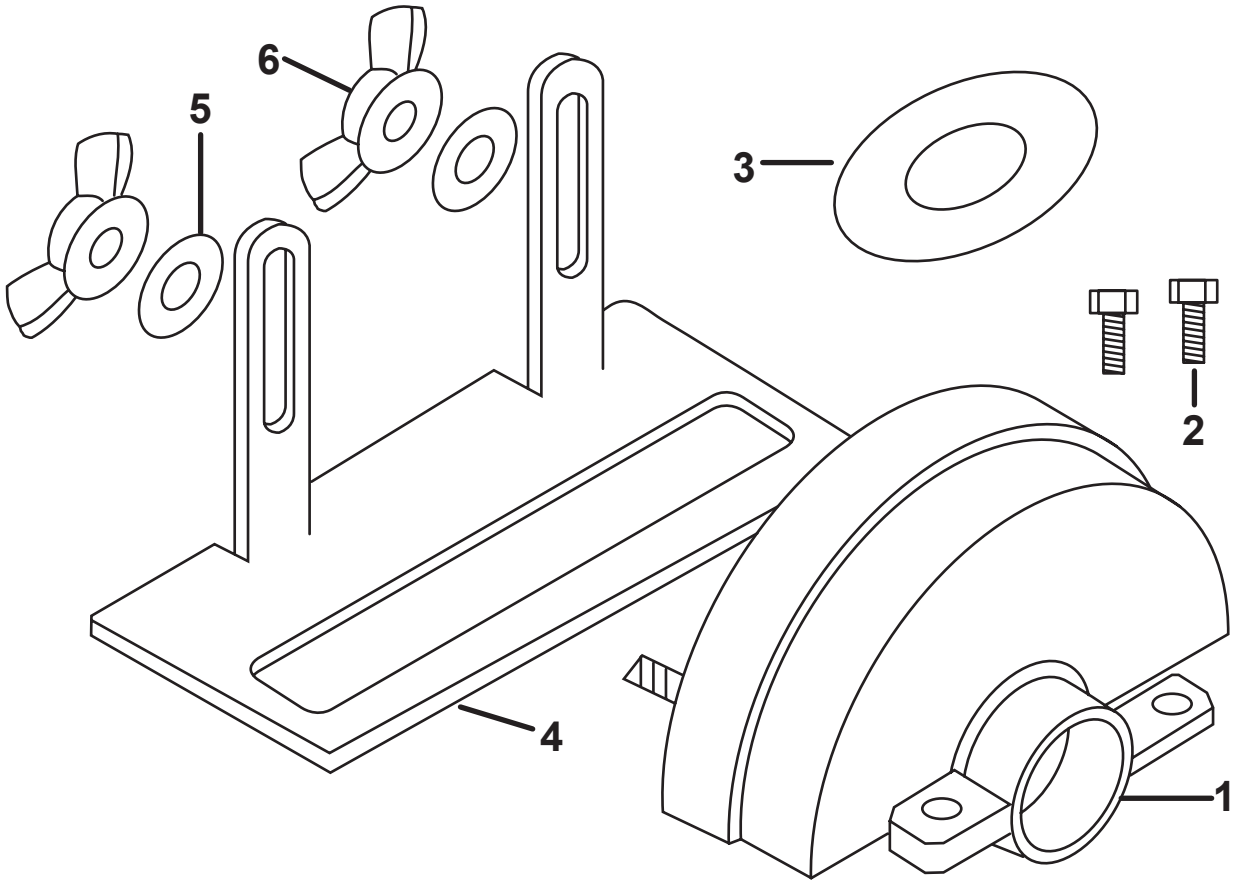
1. **BEFORE EACH USE,** inspect the general condition of the Safety Guard. Check for loose screws, misalignment, broken parts, or improper mounting of the Safety Guard, and any other condition that may affect its safe operation. If abnormal noise or vibration occurs, turn off the Angle Grinder immediately and have the problem corrected before further use.
   Do not use damaged equipment.
2. With a brush, soft cloth, or vacuum, remove all dust particles from the Safety Guard.
3. Do not use solvents to wipe off the Safety Guard, as damage may result. If necessary, wipe with a damp cloth. You may use a mild detergent.

PLEASE READ THE FOLLOWING CAREFULLY

THE MANUFACTURER AND/OR DISTRIBUTOR HAS PROVIDED THE PARTS LIST AND ASSEMBLY DIAGRAM IN THIS MANUAL AS A REFERENCE TOOL ONLY. NEITHER THE MANUFACTURER OR DISTRIBUTOR MAKES ANY REPRESENTATION OR WARRANTY OF ANY KIND TO THE BUYER THAT HE OR SHE IS QUALIFIED TO MAKE ANY REPAIRS TO THE PRODUCT, OR THAT HE OR SHE IS QUALIFIED TO REPLACE ANY PARTS OF THE PRODUCT. IN FACT, THE MANUFACTURER AND/OR DISTRIBUTOR EXPRESSLY STATES THAT ALL REPAIRS AND PARTS REPLACEMENTS SHOULD BE UNDERTAKEN BY CERTIFIED AND LICENSED TECHNICIANS, AND NOT BY THE BUYER. THE BUYER ASSUMES ALL RISK AND LIABILITY ARISING OUT OF HIS OR HER REPAIRS TO THE ORIGINAL PRODUCT OR REPLACEMENT PARTS THERETO, OR ARISING OUT OF HIS OR HER INSTALLATION OF REPLACEMENT PARTS THERETO.

PARTS LIST AND ASSEMBLY DIAGRAM

Part	Description	Qty.
1	Clamp Ring	1
2	Screw	2
3	Inner Flange	1
4	Guide Surface	1
5	Washer	2
6	Wing Nut	2



Record Product's Serial Number Here:_____

Note: If product has no serial number, record month and year of purchase instead.

Note: Some parts are listed and shown for illustration purposes only, and are not available individually as replacement parts.